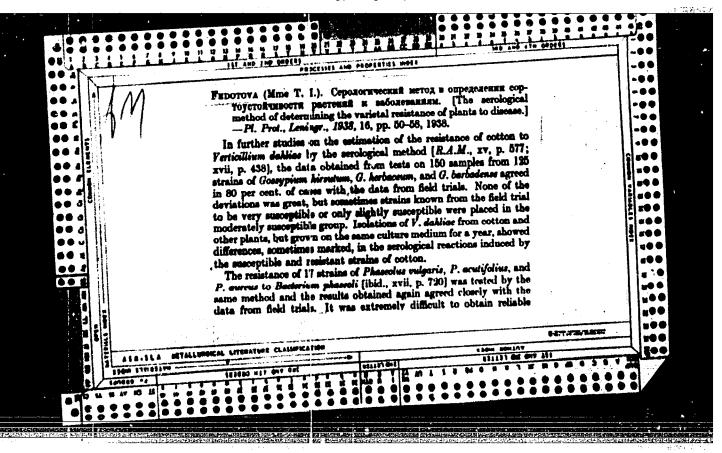
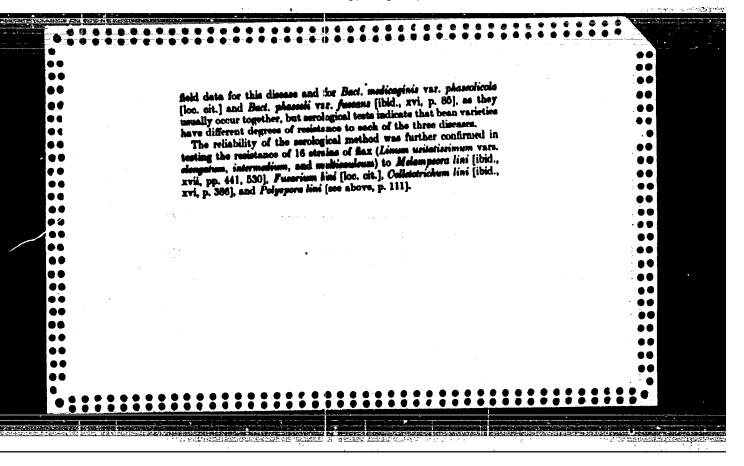
FEDOTOVA, T. I.

"Determination of Plant Resistance by Serological Methods," <u>Itogi Nauchno-Issledovatel</u>s-skikh Rabot Vsesoiuznogo Institute Zashchity Rastenii za 1935 Goda, part 3, 1938, pp. 500-501. 423.92 L541

SO: SIRA SI 90-15 15 Decl 1953





FRIOTOVA (Mine T. I.). Применения упрощенных серологических реакций в определения устойчивости сортов и ваболеваниям. (Application of simplified serological reactions for the determination of varietal resistance to disease.)—Bull. Pt. Prot., Lenings., 1939, 1, pp. 85-91, 1 fig., 1939.

In further investigations on the determination of varietal resistance of plants to disease by serological methods $\{R.A.M., xviii, p. 127\}$, the 'ring' reaction was studied in 14 varieties of beans in relation to their resistance to Bacterium susdicaginis. The technique consists in pouring a thin layer of immunised serum (at a dilution of 1 in 20 or 1 in 40) with the help of a pipette over a layer (2 to 3 drops) of the antigen at the bottom of the test-tube, the most precise results being obtained with antigens stored for 24 hours at 5° to 8° C. after preparation and sera of high titre. The precipitin ring formed where the two liquids touch is either prominent and persistent (type $+_3$), or at first rather ill-defined and later on assuming either more marked outlines or disappearing altogether (type $+_1$); sooner or later both types diffuse and are then designated type $+_2$. Very susceptible varieties gave the type $+_3$ reaction after 10 to 50 minutes, turning into type $+_3$ only after 24 hours; the minutes to 5 hours, tarning into type $+_5$ after 3 to 24 hours; the medium susceptible varieties first formed type $+_1$ rings, which soon turned into $+_5$ and then gradually diffused; while resistant varieties gave no precipitate with normal sera. The results obtained by this method agreed entirely with those obtained in agglutination tests, and it is recommended for large-scale practical work. Several experiments with the drop method, which consists in mixing one drop of serum with one drop of antigen on a glass slide, gave unreliable results.

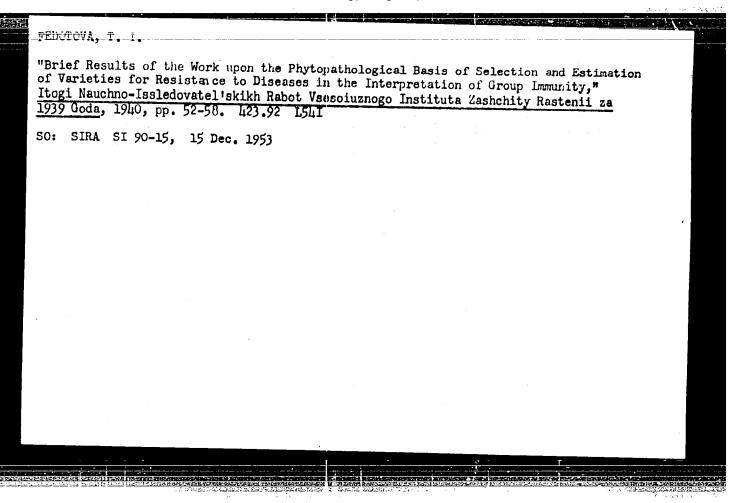
Ry AM

FRDOTOVA—(Mms-T. I.) & Каяриноvicz (Mms Z. S.). Ускоренный метод определения бактернальной зараженности семян с.-х. растений. [A quick method for determining the bacterial contamination of seeds of crop plants].—Bull. Pl. Prot., Leningr., 1939, 1, pp. 92-93, 1939.

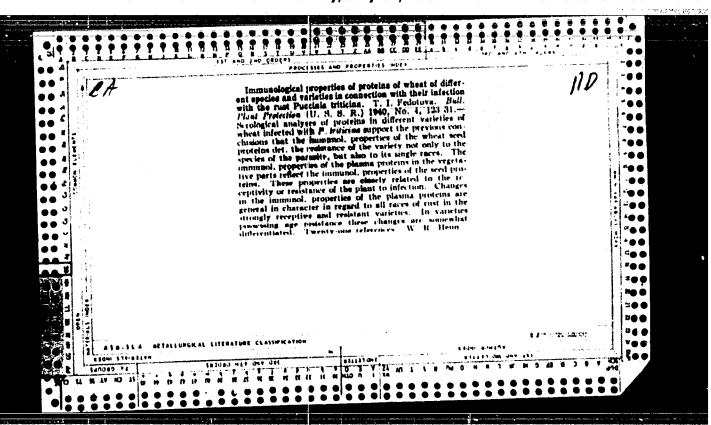
A simple and quick serological method for the determination of seed contamination with various bacterial diseases which proved successful in tests with cotton, wheat, and beans [Phaseolus vulgaris] is described as follows. Sers immunised against bacteria known to parasitise the crop under analysis are first prepared; these sers can be stored for

many years without losing their properties. Next, seeds and pieces of plant tissue are placed in test-tubes with a liquid nutritive medium and incubated for several hours to promote bacterial growth; and finally this bacteria-containing liquid, which represents the antigen, is added to the immunized serum. A floccular bacterial precipitate will result if the pathogen against which the serum has been immunized is present. This type of analysis can be entrusted to comparatively untrained persons provided they are supplied with sera prepared in central laboratories, and is, therefore, recommended for wide practical use.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810



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FEDOTOVA, T.I., kand.sel'skokhosyaystvennykh nauk

Abnormal germination of seeds of grain crops. Trudy VIZR. no.1:60-61

'48. (WIRA 11:7)

(Grain-Diseases and pests)

Role of separate proteins in the seed in the manifestation of plant resistance to disease. Trudy VIZR no.1:62-71 '48. (MIRA 11:7)

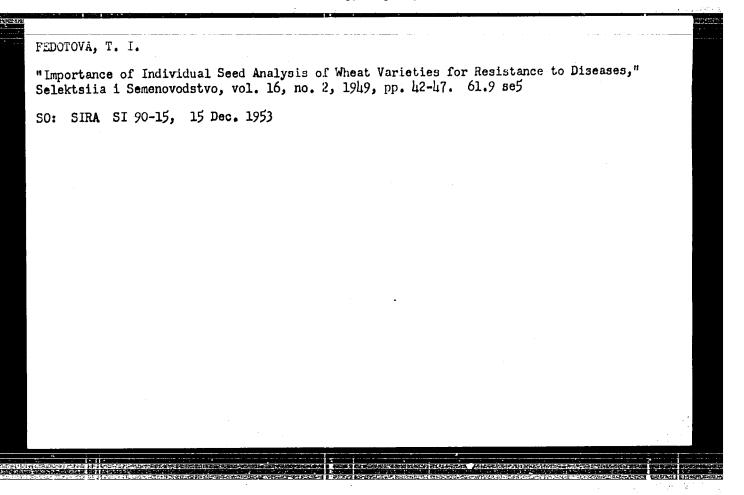
(Plants-Disease and pest resistance) (Proteins)

Isboratory (serological) seed tests in rating varieties for disease resistance. Trudy VIZR no.1:72-78 '48. (MIRA 11:7) (Flants-Disease and post resistance)

FEDOTOVA, T.I., kand.sel'skokhonyaystvennykh nauk

Leaf roll in cotton. Trudy VIZR no.1:79-82 '48. (MIRA 11:7)

(Cotton-Diseases and pests)



FEDOTOWN, i.i.

remotova, T.I., doktor sel'skokhozyaystvennykh nauk; KARASEVA, Ye.F., kandidat sel'skokhozyaystvennykh nauk; RAKOVICH, M.I.

Differences in the activity of the potato wart pathogen. Dokl. Akad.sel'khoz. 22 no.9:31-33 '57. (MIRA 10:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy. Predstavlena sektsiyey zashchity rasteniy Vsesoyuznoy ordens Lenina akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenins.

(Potato wart)

М

FEDOTOVA, T.1.

COUNTRY

: USSR

CATEGORY

: Gultivated Plants. Cereals.

ARG. JOHR. : HZhBiol., No.14 1998, No. 63298

/ WITHOR

: Fedotova, T. I.

11:57

: Kharkov University

ELT: TIS

: On the Methods of Creating Disease Resistant wheat

Variaties.

OFIG. PUB. : V ab.: Vopr. metodiki selektsii pahenitsi i kukuruzy.

Khar'kov, Un-t, 1957, 91-98

ABSTRACT

: No abstract.

Card: 1/1

11

LEDUTOVA, T.I.

CIA-RDP86-00513R0004128 PROVED FOR RELEASE: Monday, July 31, 2000 USSR/Plant Discases - Discase of Cultivated Plants.

Abs Jour

: Ref Zhur - Biol., No 15, 1958, 68529

Doktor Sel'skokhozyaystvennykh nauk

Author

Fedotova, T.I/, Karaseva, Yr.F., Rakovich, M.I.

Inst

All-Union Academy of Agricultural Sciences imeni V.I.

Lenin

Title

: Variations in the Activity of the Potato Canker Agent.

Orig Pub

: Dokl. VASKhNIL, 1957, No 9, 31-33.

Abstract

: Tests of the susceptibility of different potato varieties to canker have demonstrated that the Synchytrium endobioticum populations of different geographical devirations behave in different fashions. This is displayed according to the degree to which the plants are infected. The Chernovitskaya and Minskaya populations are more active than the Leningradskaya and Vil'nyusekaya populations.

--- S.V. Gorlenko

Card 1/1

Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy

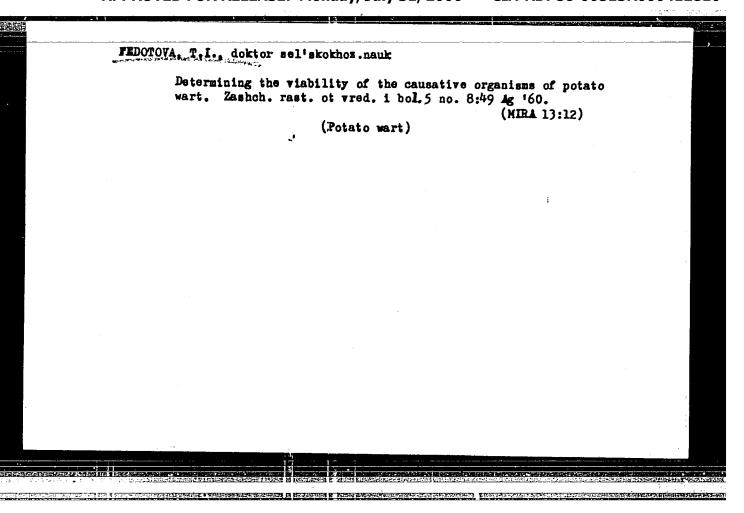
VAKIN, A.T., prof.; GOLOVIN, P.N., prof., doktor biolog.nauk; DOBROZRAKOVA, T.L., dotsent; ZHURAVLEY, I.I., doktor sel'skokhoz.nauk; POLYAKOV, I.M.; SOKOLOV, D.V., dotsent; STEPANOV, K.M., doktor biolog.nauk; TUPENEVICH, S.M., prof.; FEDORINCHIK, N.S., kand.sel'skhokhoz.nauk; FEDOTOVA, T.I., doktor sel'skokhoz.nauk; KHOKHRYAKOV, M.K., doktor biolog.nauk; CHIGARKV, G.A., kand.sel'skokhoz.nauk; YATSENKO, I.P., prof. [deceased]; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[A phytopathologist's dictionary - reference gook] Slovar'-spravochnik fitopatologa. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 414 p.

(MIRA 13:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'akokhozyayatvennykh nauk imeni V.I.Lenina (for Polyakov).

(Plant diseases -- Dictionaries)
(Russian language -- Dictionaries)



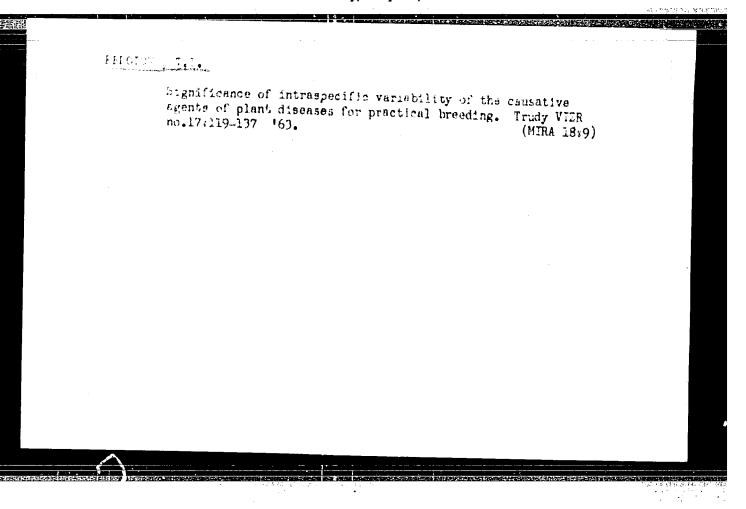
PEDOTOVA, T.I., prof.

Recent developments in the studies on the potato late blight.

Zashoh.rast.ot vred.i bol. 7 no.4:56 Ap *62. (MIRA 15:12)

1. Vsesoyusnyy institut sashchity rasteniy.
(Potato rot)

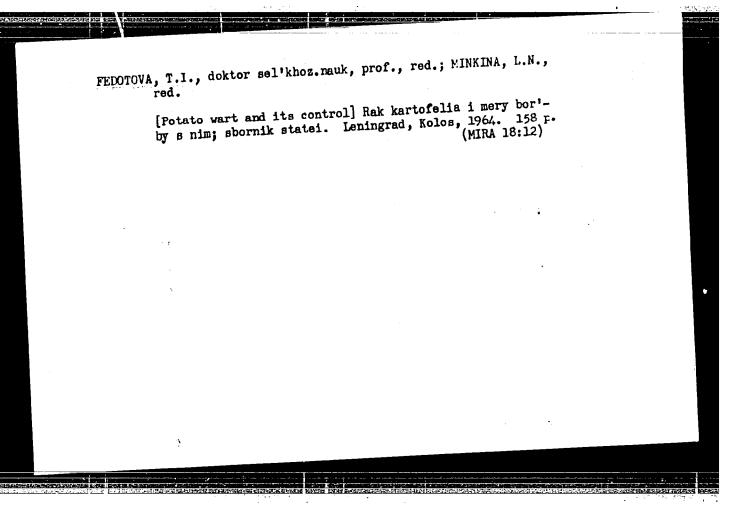
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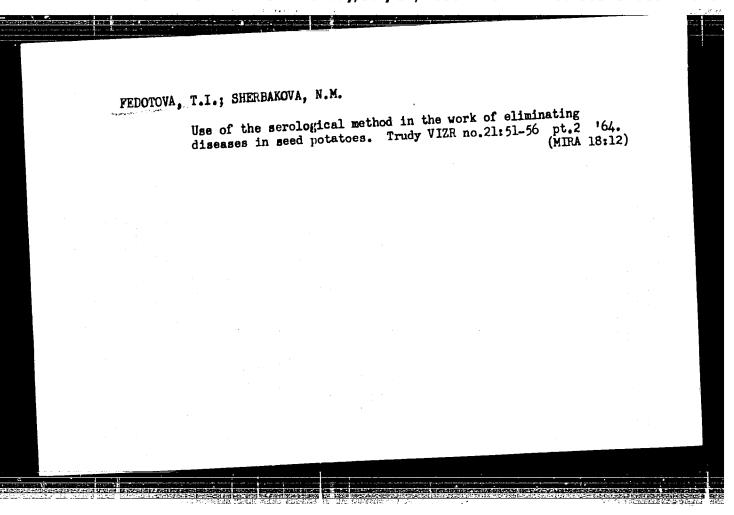


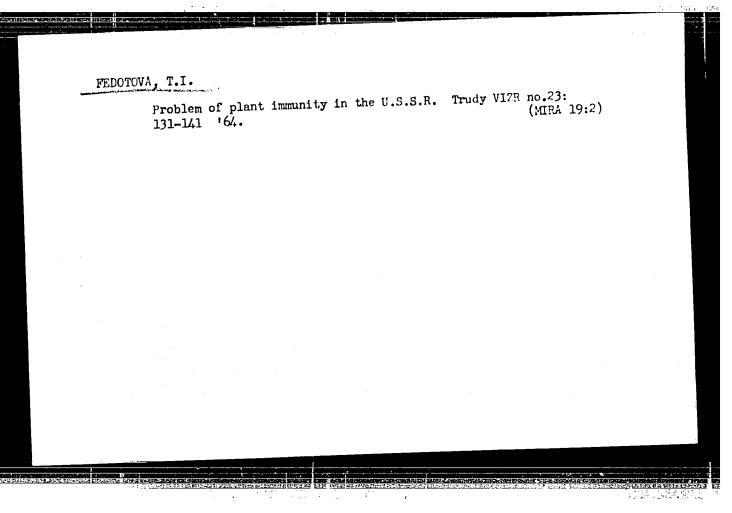
YAKUBESHUGE, N.M.; CHESHOKOV P.G.; FEDOTOVA, T.I.

Georgii Evgen'evich Spangenberg-Spagorov; 1889 - .Zashch. rast.
ot vred. i bol. 9 no.10:59 '64 (NIRA 18:1)

у ХАКИ	BTSINER, M.M.; FEDOTOVA, T.I.; CHEFO 1007, 1.1.	
2.11	In memory of Georgii Evgen'evich Spangenters Spangenters (1) to 165, anniversary of his birth. Bot. zbur. 50 no.4: 10-2-109 (NEA 18:5)	
	1. Vsesoyuznyy institut zashchity restably i had propy in tital rasteniyevodstva, Lemingrad.	
kolubelik en oder den skiede inde		13.52.3 <i>77</i> 1







FEDOTOVA, T. K.

"On the Problem of Preserving Berries." Thesis for degree of Cand. Technical Sci. Sub 27 Jun 49, Moscow Inst of Soviet Cooperative Trade

Summary 82, 18 Dec 52, <u>Dissertations Fresented for Degrees in Science and Engineering in Moscow in 1949</u>. From Vechernyava Moskva, Jan-Dec 1949.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128100

FEDOTOVA, T.K.; TE, V.

Jujube, a rich source of vitagin C. Vop.pit, 14 no.6:43 H-D '55.

(MERA 9:1)

1. Is Samarkandskego instituta sevetskoy torgovli imeni Kuybysheva.

(JUJUBE(FLANT)) (ASCORBIC ACID)

FEDOTOVA, T.K., kand. tekhn. nauk

Catalase activity of honey. Nauch. trudy Samark. inst. sov. torg.
8:187-188 '57.

(Honey) (Catalase)

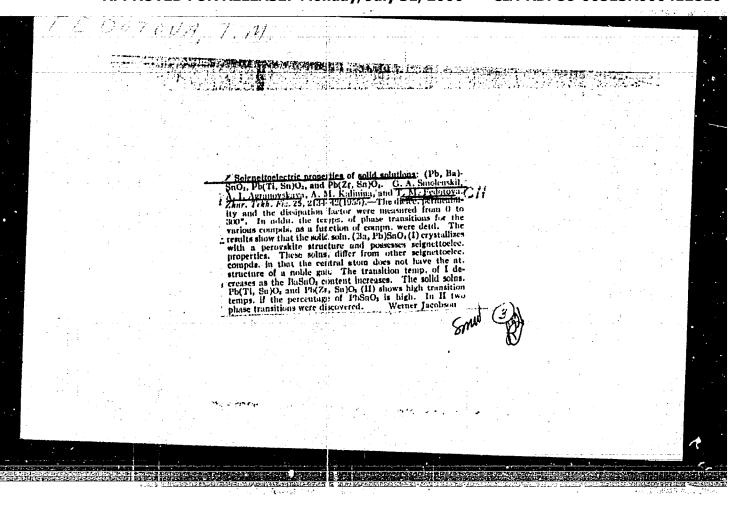
(Honey) (Catalase)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810(

FEDOTOVA, T.K., dotsent

Potassium pyrosulfite in carrot storage. Zasheh. rast. ot vred. i bol. 7 no.12:36 D '62. (MIRA 16:7)

1. Novosibirskiy institut sovetskoy kooperativnoy torgovli.
(Carrots—Storage) (Potassium pyrosulfite)



86489

5.2610

1043, 1136, 1273

S/078/60/005/008/022/031/XX B023/B066

AUTHORS:

Zvorykin, A. Ya., Perel'man, F. M., Babiyevskaya, I. Z., Fedotova, T. N.

TITLE:

Calcium and Iron Germanates

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

TEXT: The authors investigated systems of sodium germanate and calcium nitrate or iron nitrate in aqueous solutions with different ratios of the components. The formation of calcium metagermanate, CaO.GeO2.nH2O, and three iron germanates, $\text{Fe}_2^{0}_3$. GeO_2 . nH_2^{0} , $\text{Fe}_2^{0}_3$. 2GeO_2 . nH_2^{0} , and Fe 203.3GeO2.nH20, was detected by Schreinemakers' method. Thermograms and X-ray diffraction patterns of the compounds mentioned above disclosed characteristic peculiarities and confirmed the chemical homogeneity of the resulting compounds. It was further found that the germanate Fe₂O₃OeO₂.nH₂O may be obtained with 15 and 2.5 molecules of hydration water, and that the

Calcium and Iron Germanates

86489 S/078/60/005/008/022/031/XX B023/B066

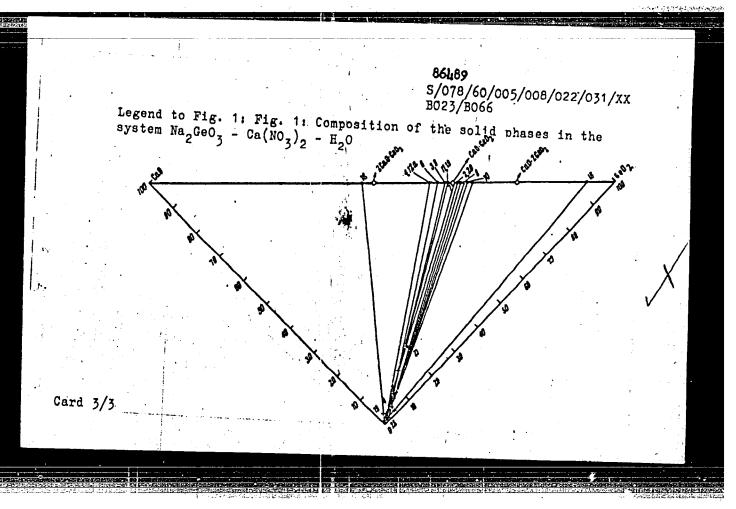
germanate Fe₂0₃.2GeO₂.nH₂O still contains two H₂O molecules after drying at 120°C. All iron germanates were subjected to X-ray phase analysis at the laboratory of V. G. Kuznetsov. Table 1 shows the composition of the liquid phases and of the "residues" in the system $Na_2GeO_3-Ca(NO_3)_2-H_2O_3$ and Table 2 dto. in the system Na_2GeO_3 -Fe(NO_3)3-H2O. Fig. 1 illustrates the composition of the solid phases in the system $Na_2GeO_3-Ca(NO_3)_2-H_2O_3$ and Fig. 2 dto. in the system Na_2GeO_3 - $Fe(NO_3)_3$ - H_2O . V. F. Zhuravlev is mentioned. There are 7 figures, 2 tables, and 10 references: 4 Soviet, 4 German, and 2 US.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences USSR)

SUBMITTED:

March 10, 1959

Card 2/3



APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128100

CHERNYAYEV, I.I.; ADRIANOVA, O.N.; FELOTOVA, T.N.

Spectropolarimetric study of the inner-sphere chlorination reaction of amines in platinum (IV) complexes. Zhur.neorg. khim. 11 no.1:43-53 Ja '66.

(MIRA 19:1)

1. Submitted December 14, 1964.

FEDOTOVA, T.T.; MES'KINA, F.A.

Improvements in the technological aspects of the manufacture of food concentrates. Kons.i ov.prom. 12 no.8:35 Ag '57. (MIRA 10:10)

1. Moskovskiy ordena Lenina pishchevoy kombinat imeni Mikoyana. (Food, Concentrated)

ALIYEV, A.D.; KRENTSEL', B.A.; FEDOTOVA, T.N.

Asymmetrical polymerization of trans-1-phenyl-1,3-butadiene. Vysokom. soed. 7 no.8:1442-1446 Ag 165. (MIRA 18:9)

1. Institut neftekhimicheskogo sinteza imeni A.V. Topchiyeva AN SSSR.

CHERNYMEY, III.; FEDOTOVA, T.N.; ADRIANCVA, O.N.

Rotatory dispersion of mirror isomera EnNHacing Circular Zhur. neorg. khim. 10 no.711541-1549 Ji '65.

(MIRA 18:8)

5(4) AUTHORS:

SOV/76-33-4-26/32 Kaliko, M. A., Nikitin, Yu. S., Fedotova, T. V.

TITLE:

The Effect of the Conditions of Preparation of Hydrogels of Silicon- and Aluminum Oxide Upon the Structure and Activity of Mixed Aluminosilicate Catalysts (Vliyaniye usloviy prigotovleniya gidrogeley okisi kremniya i okisi alyuminiya na strukturu i aktivnost! smeshannykh alyumosilikatnykh

katalizatorov)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 4, pp 922-929 (USSR)

ABSTRACT:

As is known, (Refs 8, 9) the porous structure of silicagels (SC) and aluminum gels (AC) strongly depends on the production technique. It can be expected that with equal content of (AG) the catalysts (C) prepared with hydrogels of different production differ from one another with respect to their properties. In the present case 4 (SG)-types were prepared, differing as to the concentration of the acids used in production and in the preparation conditions - SG-1 (4.36 n H_2SO_4), SG-2 (2.37 n H_2SO_4)

SG-10 (1.1 n H_2 SO₄), S-25 (0.6 n HCl). The (AG) A-1 and A-2

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were precipitated at a lower temperature (8-10°) than A-3 (100°).

SOV/76-33-4-26/32

The Effect of the Conditions of Preparation of Hydrogels of Silicon- and Aluminum Oxide Upon the Structure and Activity of Mixed Aluminosilicate Catalysts

Aluminum silicagel catalysts (AC) were prepared by intermixing the humid (SG) and (AG) and by after-treating and annealing the tablets at 750 during 3 hours. The (SG) strongly differed in their structure (Fig 1 adsorption isotherm of CH2OH, table 1, structural values). SG-1 is homogeneously fine-porods, SG-2 likewise, although it exhibits larger pores, S-25 and SG-10 are less homogeneous (they were precipitated at a higher pH). The structural properties of AG were likewise determined from methanol adsorption isotherms (Fig 2)(Table 1). A-3 possesses a considerably larger pore volume than A-1 and A-2. By intermixing the different (AG) and (SG) the authors obtained the (AC) having a constant composition (30% Al₂0₃ - 70% SiO₂) and the structural characteristics (Table 2) were determined from the adsorption isotherms of methanol (Fig 3). The catalytic activity of (AC) was evaluated after the cracking of the kerosene-gasoline fraction of an Artem-Malgobek petroleum at determined conditions (Table 3, results of cracking with the 6 various (AC-types). The experimental results obtained show that in a certain respect the structural properties of the intermixed gels are preserved in the catalyst, in which con-

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807/76-33-4-26/32 The Effect of the Conditions of Preparation of Hydrogels of Silicon- and Aluminum Oxide Upon the Structure and Activity of Mixed Aluminosilicate Catalysts

nection the fine-porous (C) exhibit the greatest efficiency and the (C) prepared from coarse-porous gels exhibit the least activity. The structural formation of the gels depends on the preparation conditions and may be considered in the same way as the growing of crystals, which also explains various observations made. Thus an enlargement of the specific surface of the coarse porous (C) may be explained by a mutual stabilization of SiO2 and Al2O3 particles in the process of drying and annealing, i.e. an enlargement of the particles is prevented. The catalytic activity may also be determined by the properties of the hydrogels. There are 3 figures, 3 tables, and 16 references, 11 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza (All-Union Scientific Research Institute for

Petroleum Refining and Gas Processing)

SUBMITTED:

October 3, 1957

Card 3/3

FEDOTOVA, V. A; KHORSOVA, N. I.

Clinical aspects of chronic poisoning with phenacetin. Klin. med., Moskva 30 no.4:88 Apr 1952. (CLML 22:2)

1. Of the Department of the Propedeutics of Internal Diseases (Head -- Prof. M. A. Brener), Kazakh Medical Institute imeni V. M. Moletov, Alma-Ata.

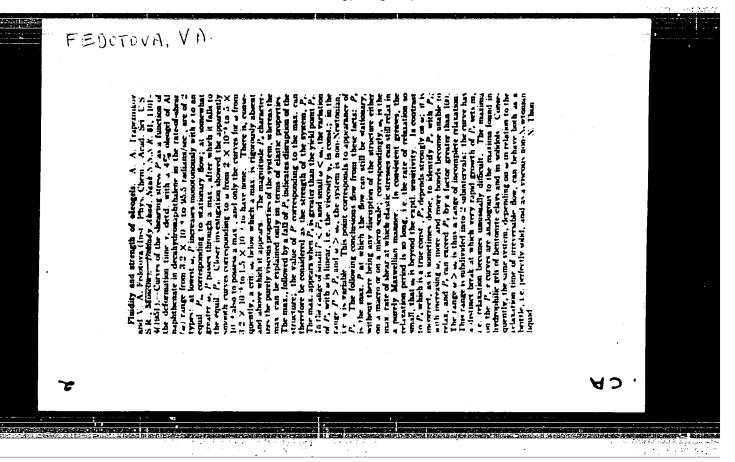
FEDOTOVA, V.A.

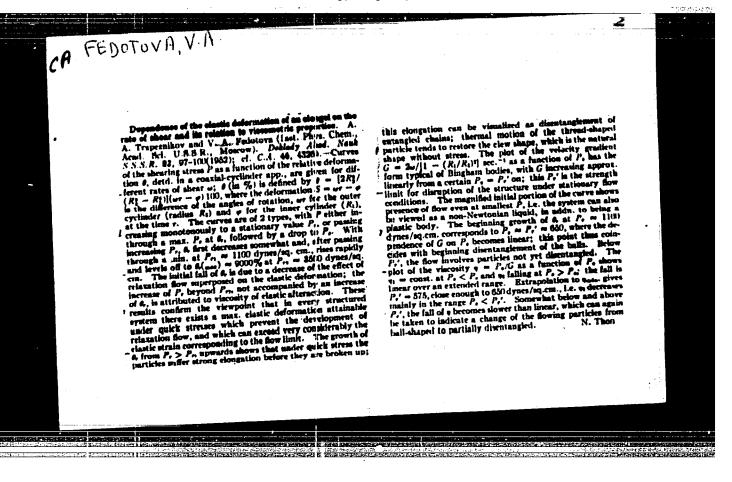
Oxygen therapy for patients with chronic nonspecific pulmonary diseases. Zdrav.Kazakh. 16 no.9:25-27 '56. (MIRA 10:1)

1. Is kafedry propedevtiki vnutrennikh bolezney (zav. - professor M.A.Brener) Kasakhakogo gosudarstvennogo meditsinskogo instituta imeni V.M.Molotova.

(IUNGS--DISEASES)

(OXYGEN--THERAPEUTIC USE)

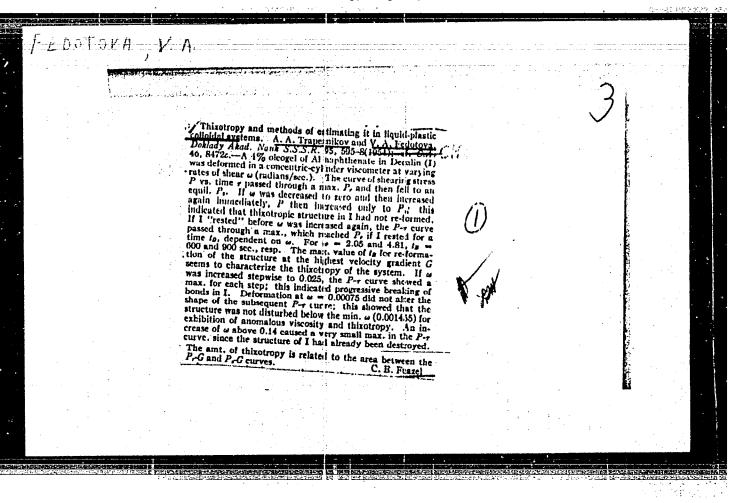




FEROTOVA, V. A., and TAAPSZEIKOV, A. A.

"On the Connection between Deformation Stabilities and Viscous Properties of Oleophillic Gel Solutions and on the Thixotrophy of Liquid-Plastic Colloid Systems" (O svyozi mezhdu deformatsionno-prochnostnymi i byazkostnymi svoystvami oleofil'nykh gel'rastvorov i o tikaotropii zhidko-plastichnymh kolloidynky sistem) from the book Trudy of the Third All-Union Conference on Collid Chemistry, pp. 65-91, Iz. AN SSSR, Moseow, 1953

(Report given at above Con ference, Minsk, 21-4 Dec 53)



SOV/124-57-4-4434

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 80 (USSR)

AUTHORS: Trapeznikov, A. A., Fedotova, V. A.

TITLE:

On the Connection Between the Strength-and-strain and the Viscosity Properties of Lyophilic Gel Solutions and on the Thixotropy of Liquidplastic Colloidal Solutions (O svyazi mezhdu deformatsionnoprochnostnymi i vyazkostnymi svoystvami oleofil'nykh gel'-rastvorov

i o tiksotropii zhidko-plastichnykh kolloidnykh sistem)

PERIODICAL: V sb.: Tr. 3-y Vses. konferentsii po kolloid. khimii. 1953 g. Moscow, AN SSSR, 1956, pp 65-91

ABSTRACT: Bibliographic entry

Card 1/1

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412810

Translation, V. H

124-1957-10-12303 D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 151 (USSR)

AUTHOR: Fedotova, V.A.

TITLE:

The Viscous and Deformation-strength Properties of Liquid Olefinic Systems (Vyazkostnyye i deformatsionno-prochnostnyye svoystva zhidkoobraznykh oleofil'nykh sistem)

ABSTRACT: Bibliographic entry on the Author's dissertation for the degree of Candidate of Chemical Sciences, presented to the In-t fiz. khimii AN SSSR (Institute of Physical Chemistry, USSR Academy

ASSOCIATION: In-t fiz. khimii AN SSSR (Institute of Physical Chemistry, USSR Academy of Sciences), Moscow.

Card 1/1

AUTHORS:

Federation, A. A., Trapeznikov, A. A. 30V/20-120-1-35/63

TITLE:

The Dependence of the Lower Structural Strength Limit and the Critical Velocity Gradient on the Concentration of the Aluminum Naphthenate Oleogel (Zavisimost' nizhnego predela prochnosti struktury i kriticheskogo gradiyenta skorosti ot kontsentratsii oleogelya naftenata slyuminiya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1950, Vol. 120, Nr 1, Pp. 130 - 133 (USSR)

ABSTRACT:

The investigation of the dependence mentioned in the title lead to the finding of interesting rules. The evaluation of the curves determined by means of a complex clastoviscosimeter concerning the kinetics of the development of the deformation in the case of constantly applied shear stress $\mathcal{E}(\mathcal{T})_p$ ("method P = const") as well as of the curves for the stress $\mathcal{E}(\mathcal{T})_p$ ("method P = const") as

well as of the curves for the kinetics of the development of the shear stress in the case of constant speeds of revolution of the outer cylinder $P(\tau)Q$ ("method Ω = const") lead to the determination of the depondence of the viscosity of the system on the applied shear stress and of the velocity gradient. Thus the lower structural strength limit P_k and the corresponding value of the

Card 1/3

The Dependence of the Lower Structural Strength Limit 30/20-120-1-35/63 and the Critical Velocity Gradient on the Concentration of the Aluminum Naphthenate Olcogel

velocity gradient $\epsilon_{\bf k}$ for any concentration of the gel could be determined. Two diagrams show the dependences η (2) and η ($\dot{\epsilon}$) for the aluminum naphthenate gel in debalin at concentrations of from G to 20%. The systems with c < 6.5 are still elastic and considerably liquid. However, the systems with C = 8 - 20% react already like real highly clastic gels with great chear moduli. Yet also with these Gels a slow but still measurable flow can be noticed. In all investigated concentrations of the oleogel the viscosity in the interval of the smallest P and E is constant and begins to decrease at a little greater P and E. In the case of increasing concentration of the gel the values of the maximum constant viscosity η_1 =const as well as of the lower strength limit P_k increase considerably. This increase of P_k with increasing C can be explained by the increase of the number of local bindings of the structural lattice of the gal. The values $\dot{\mathcal{E}}_{k}$ do not increase with increasing C but they decrease. The dependences $\lg P_k$ - C and $\lg \hat{\boldsymbol{\ell}}_k$ - C fit well on straight lines.

Card 2/3

1.3

The Dependence of the Lower Structural Strength Limit SOW20-120-1-35/63 and the Critical Velocity Gradient on the Concentration of the Aluminum Naphthenate Oleogel

The relation $P_K \in_K = P_{K_1} \cdot E_{K_1} = W_K = const$ is valid in this

case. This might be connected with the fact that in the case of an increase of WK various bindings in the gels break. There are 4 figures, 1 table, and 6 references, all of which are Soviet.

PRESENTED:

December 28, 1957, by M.M.Dubinin, Member, Academy of Sciences, USSR

SUBMITTED:

December 26, 1957

1. Aluminum compounds--Physical properties 2. Aluminum compounds --Viscosity 3. Aluminum compounds--Deformation 4. Mathematics

Card 3/3

AUTHORS:

Fedotova, V. A., Trapeznikov, A. A.

SOV/20-120-4-42/67

TITLE:

The Influence of the Concentration of the Oleogel of Aluminium Naphthenate Upon the Maximum Limit Deformation and Upon the Corresponding Strength of the Structure (Vliyaniye kontsentratsii alengelya naftenata alyuminiya na maksimal'nuyu predel'nuyu deformatsiyu i sootvetstvuyushchuyu prochnost' struktury)

PERIODICAL:

Doklady Akademii nauk SSSR, Vol. 120, Nr 4,

pp. 841 - 844 (USSR)

ABSTRACT:

The shear deformations corresponding to the ultimate stress limit are particularly marked in the oleogels of aluminium naphthenate; they amount to some thousand per cent and can therefore be regarded as being suitable superelastic highpolymeres. The authors investigated the dependence of the deformation ϵ_{r} , which corresponds to the ultimate stress limit, on the

shear tension $P_{\mathbf{r}}$ for 2 - 20 - per cent oleogels of aluminium

naphthenate in Decalin. The maximum limit deformation $\epsilon_{\rm rm}$

Card 1/3

decreases with increasing concentration of the oleogel; this indicates a decrease in elasticity. The authors also give a

The Influence of the Concentration of the Oleogel of SOY/20-120-4-42/67 Aluminium Naphthenate Upon the Maximum Limit Deformation and Upon the Corresponding Strength of the Structure

short explanation of the reasons of this decrease. The strength Pr = Pr at which the deformation corresponding with the ultimaté stress limit, ε_r , reaches its highest value ε_{rm} (by the increase of the velocity of deformation) increases in proportion to the concentration of the system and is a linear function of the number of local bindings between the separate chains. The dependence of the value of trm on the concentration C corresponds to a hyperbola of the first degree. The deformation energy to be applied up to breaking quickly increases at low concentrations of the gel; in the case of higher concentrations $c\sim 6$ - 8% it practically tends towards a constant value. This constancy indicates that the increase in bindings in the net of the lattice is compensated by a decrease of the deformation which corresponds with the ultimate stress limit. There are 4 figures, 1 table, and 13 references, 6 of which are Soviet.

Card 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810

The Influence of the Concentration of the Oleogel of 507/20-120-4-42/67 Aluminium Naphthenate Upon the Maximum Limit Deformation and Upon the Corresponding Strength of the Structure

PRESENTED:

February 7, 1958, by P. A. Rebinder, Member, Academy of

Sciences, USSR

SUBMITTED:

February 1, 1958

1. Aluminum naphthenate--Mechanical properties 2. Aluminum naphthenate---Structural analysis 3. Aluminum naphthenate--Elasticity

4. Aluminum naphthenate--Deformation 5. Polymers---Materials

Card 3/3

12.1150

66517

SOV/137-59-7-15793

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 7, p 228 (USSR)

AUTHORS:

Sheyn, A.S., Tsareva, A.A., Fedotova, V.D., Pavlova, Z.V.

TITLE:

Steels for Rings and Rolling Parts of High-Temperature Bearings, Their Properties and Heat Treatment

PERIODICAL:

Tekhnol, podshipnikostroyeniya, 1958, Nr 17, pp 68 - 88

ABSTRACT:

Investigations were carried out into the effect of the geometrical shape and dimensions, the fiber direction, the temperature of quench-hardening, and annealing and chilling processes on changes in the structure and dimensions during heat treatment, stability of dimensions, hot hardness and contact endurance of "EI-347", "EI-161" and other heat resistant steels. Attempts were made to replace "EI-347" steel by a heat resistant bearing steel having considerable carbide heterogeneity. For this purpose steels were investigated containing (in %): C 0.60 - 0.81; Cr 2.99 -

Card 1/2

8.01; W 1.3 - 7.4; V 0 - 1.26; Mo 0 - 0.49. Two new steel grades "V7Kh4F" and "V4Kh4MF" were developed, suitable to operate at temperatures

66517

Steels for Rings and Rolling Parts of High-Temperature Bearings, Their Properties

up to 400° C, and up to 500° C if R_C was 55. The chemical composition (in %) of V7Kh4F steel is: C 0.6 - 0.7; Mn \leq 0.4; Si 0.4 - 0.6; Cr 4.4 - 5.0; V 0.4 - 0.7; Mo 0.2 - 0.35; V4Kh4MF steel contains: C 0.7 - 0.8; Mn \leq 0.4; Si 0.4 - 0.6; Cr 4.4 - 5.0; V 0.7 - 1.0; Mo 0.4 - 0.6. 14 bibliographical titles.

T.F.

W

Card 2/2

\$/137/62/000/012/041/085 A006/A101

AU'THORS:

Sheyn, A. S., Tsareva, A. A., Fedotova, V. D.

TITLE:

Low-alloy heat-resistant steels for antifriction bearings and

PERIODICAL:

Referativnyy zhurnal, Motallurgiya, no. 12, 1962, 68, abstract 121403 ("Tr. Vses. n.-i. konstrukt. tekhnol. in-ta podshipnik, prom-sti", 1960, no. 2; (22) 102 - 120)

TEXT: The authors investigated the structure and the most important properties of new low-alloy heat resistant steels of type B4X4M\$\phi\$ (V4Kh4MF) 0.65% C. They determined the effect of the quenching and tempering temperature, the number of tempering processes upon the hardness of type 3M944 (E1944) and 9M945 (EI945) steels. The authors studied furthermore the changes in size during heat treatment; stabilization of the structure and size, hot hardness and creep resistance; strength properties during tensile tests, torsion and impact bending; and the magnitude of contact endurance of (EI944) and (V/Kh4F) (EI945) steels, containing 0.75 and ... (?) [Abstracter's remark: omission]. The investigation

Card 1/2

Low-alloy heat-resistant steels for...

S/137/62/000/012/041/085 A006/A101

methods are described. It is shown that low-alloy type EI944 steel has a lesser carbide heterogeneity, inparticular in large sections, and better general mechanical properties, than high-speed steel, and a relatively high heat resistance. The steel is recommended for the manufacture of bearings intended to operate at temperatures up to 400 - 450 °C, and for dies.

G. Rymashevskiy

[Abstracter's note: Complete translation]

Card 2/2

EWG (j)/EWP(e)/EPA(s)-2/EWR(m)/EPF(c)/EPF(n)-2/EWA(d)/EPR/EPA(w)-2/ EPA(DD)-2/EWP(b)/EWP(t) Pq-li/Pr-li/Ps-li/Pt-10/Pu-li/Pab-10/Pad ACCESSION NR: AR4044544 WH/WW/ 8/0277/64/000/006/0025/0025 SOURCE: Ref. zh. Mashinostr. mat., konstr. i raschet detal. mashin. Otd. vy*p., Abs. / 48.155 JTHOR: Sheyn, A. S., Tsareva, A. A., Fedotova, V. D. 13 TITLE: A study of pyroceramics \2 CITED SOURCE: Tr. Vses. n. -i. konstrukt. tekhnol. in-ta podshipnik. prom-sti. ...P.C TAGS: ball thrust bearing, pyroceramic bearing, metallic alloy bearing, pyroceramic ball test, pyroceramic ball porosity, pyroceramic ball life TRANS_ATION: 1 The study concerned pyroceramic materials for races and rollers of bearings working in aggressive environments and at high temperatures. Tests were made on disk-shaped samples (diameter-26 mm, height 3 mm) burnished for 1 hour on a 4-ball machine at temperatures of 20 to 900C (load 30 kg, molybdenum disulfide lubrication,) argon atmosphere). Results of the study of various pyroceramics, differing in composition, heat treatment and ratio of vitreous to crystalline phases, established that products of group Zh exhibit the best high-temperature strength at loads corresponding to apparent Curd 1/2

ACCESSION NR: AR4044644

contact stress & max of 23,000 kg/cm². Dest workability in rolling is attained with the pair "metallic high strength pyroceramic or metalloceramic alloy". It is recommended that bearings be manufactured with races of metallic alloyg and balls of pyroceramic. Tests on experimental lots of ball thrust bearings of type 8305, with races of heat reststant nickel alloy E1607 and pyroceramic balls, were carried out at 500 and 700C, under loads corresponding to apparent stresses of max of 12,000 kg·cm², 1000 rpm, in argon with graphite powder lubrication and in air without lubrication. Results demonstrated that the low contact life of the balls (from 50 min. to 5 brs.) is due to substandard quality of the material (i.e. pores, cavities) and its high brittleness. A need is noted for developing the technology of manufacture of balls from non-porous and homogeneous pyroceramics.

SUB CODE: MT ENCL: 00

acc ni	27-67 EWI(m)/EWP(t)/ETI IJP(c) JD 1: AR6013834 (A, N) SOURCE CODE: IR/0276/65/000/011/hous/hour	: 1
	01.7 02.7 07.0 07.0 011/8040/8047	
LUTHOF	S: Tsareva, A. A.; Fedotova, V. D.	
ITLE	Several peculiarities of the heat treatment technology of bearing parts	
	: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11B284 27	
ef so (39),	URCE: Tr. Vses. ni. konstrukttekhnol. in-ta podshipnik. prom-sti,	
OPIC lloy	FAGS: steel alloy, ball bearing steel, metal heat treatment / EI347Sh steel	
xposu	CT: The effects of quenching temperature and exposure time on the grain reconstructure, and hardness of steel were investigated. It was shown that	
Cter (ned the microstructure. For example, the grain size and microstructure are exposure time of 1 min/mm at a final temperature of 12000 is coarser than	
mes,	significant differences in temperature do not affect the grain size and	****
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ACC NR: AR6013634

2.

microstructure. During the final heating prior to quenching of EI3478h steel parts; an exposure time of 6—12 sec/mm (depending only on the thickness of the part) is recommended. Modifications of the heating regime prior to quenching should be performed by increasing or lowering the final heating temperature. Recommended heating regimes prior to quenching are presented for the temperature which is used in instructions for the manufacture of heat-resistant bearing parts abstract/

SUB CODE: 13, //

bearing steel

Card 2/2 M LE

IVANOVA, N.A.; FEDOTOVA, V.I.

Cytomegaly in children. Sov.med. 26 no.2:78-82 F:63.

(MIRA 16:6)

l. Iz Ieningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta na baze detskoy ob#yedinennoy bol*nitsy (glavnyy vrach Z.A.Steklyannikova)Kalininskogo rayona.

(VIRUS DISEASES) (INFANTS (NEWBORN)—DISEASES)

L 3608-66 EVT(1)/EVIP(m)/FWA(1)/ECS(k) ACCESSION NR: AP5024045 UR/0057/65/035/009/1652/16574 533.9.07 AUTHOR: Redkoborodyy, Yu. N.; TITLE: Bolometric measurements of the radiation of an ionized shock wave in a SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1652-1657 1.19.55 TOPIC TAGS: plasma shock wave, argon, plasma radiation, bolometer, recombination radiation ABSTRACT: The authors have measured the radiation from reflected shock waves with Mach numbers between 7 and 11 in argon at 10 mm Hg. The shock waves were produced in an electric discharge shock tube which was provided with a lithium fluoride glass window at the far end. A bolometer mounted outside this window recorded on an oscilloscope the radiation from the reflected shock wave. The bolometer was similar to the instrument described by L.L.Gorelik (ZhTF, 34, 496, 1964); it had a resolving time of 10 microsec and an equilibration time of 0.1 sec. The surface of the bolometer was blackened by depositing aluminum on it in a nitrogen atmosphere at 1 mm Hg; this increased the sensitivity by a factor 7. The radiation intensity of the shock wave plasma was calculated from the bolometer readings recorded during approximately the first 100 microsec after the reflection; preliminary calcula-**Card 1/3**

L 3608-66

ACCESSION NR: AP5024045

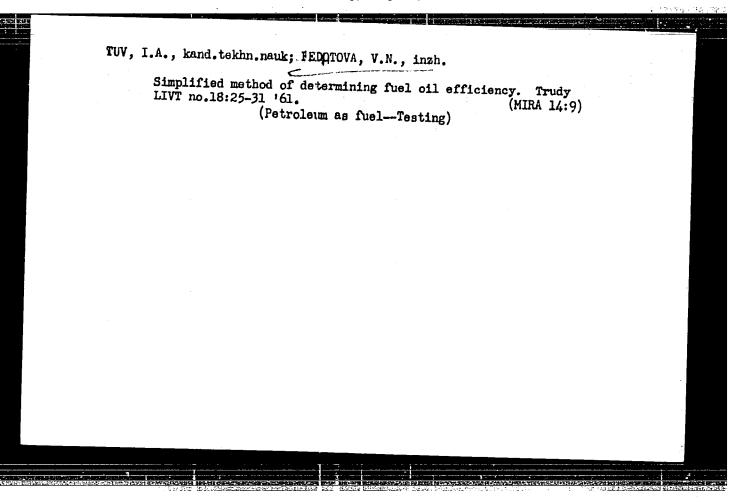
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tions indicated that the layer of plasma involved would be optically thin, and this was confirmed by the measurements. The measured radiation intensities were compared with values calculated with the theory of F.H. Wies (J. Chem. Phys., 37, No.5, 1963). Only recombination radiation was taken into account in the calculations, preliminary estimates having indicated that the bremsstrahlung and line spectrum intensities would be negligible. When the logarithms of the measured intensities were plotted against the reciprocals of the corresponding temperatures, the points fell near a straight line that was parallel to but somewhat below the theoretical curve. This discrepancy is ascribed to incorrect temperature determination; the velocity of the shock wave was measured at some distance from the window and its decrease with increasing age of the wave was neglected. Comparison of the measured radiation intensities with enthalpies of argon indicate that in the theory of argon shock waves radiative energy losses can be neglected at temperatures up to 10 000 °K but must be tuken into account at higher temperatures. "In conclusion, we thank L.L.Gorelik air V.V.Sinitsiff for valuable advice and discussions, V.I.Kogan and A.I.Karchevski, for very significant remarks which enabled us to improve the quality of the work, and V.I.Nikolayev for assistance in fabricating the bolometers." Orig. art. has: 7 formulas and 2 tables.

Card 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810

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SVOYATITSKAYA, S.T. [Svoiatyts'ka, S.T.]; SERGEYENKOVA, P.M. [Serhiienkova, P.M.]; GALUSHKINA, I.M. [Halushkina, I.M.]; PEDOTOVA, V.O.; NOSOV, M.P.; SUFIK, B.I.; PEREDERIY, A.T.; PRIKHOD'KOV, V.F., otv. ga vypusk; DEMERDZHI, D.L., red.; GLUSHKO, G.I. [Hlushko, H.I.], tekhn.red.

[Economy of Dnepropetrovsk Province; statistical collection] Narodne hospodarstvo Dnipropetrovs'koi oblasti; statystychnyi zbirnyk. Dnipropetrovs'ka knyshkove vyd-vo, 1960. 221 p.

1. Dnepropetrovsk (Province) Statisticheskoye upravleniye.
2. Dnepropetrovskoye oblastnoje statisticheskoye upravleniye (for Svoyatitskaya, Sergeyenkova, Galushkina, Fedotova, Nosov, Sufik, Perederiy).
3. Nachalinik Dnepropetrovskogo oblastnogo statisticheskogo upravleniya (for Prikhodiko).

(Dnepropetrovsk Province--Statistics)

FRATERIA CA

LISITSIN, Ye.A.; FEDOTOVA V.P.; NOCTEVA, N.Ya.

Experience in the production of no.1310 unbleached poplin. Tekst. prom. 17 no.9:56-57 S *57. (MIRA 10:11)

1. Zaveduyushchiy tkatskim proizvodstvom fabriki Bol'shaya Ivanovskaya Manufaktura (BIM) (for Lisitsyn). 2. Zaveduyushchiy laboratoriyey fabriki Bol'shaya Ivanovskaya Manufaktura (for Fedotova). 3. Nachal'nik prigotovitel'nogo otdela fabriki Bol'shaya Ivanovskaya Manufaktura (for Nogteva).

(Cotton fabrics)

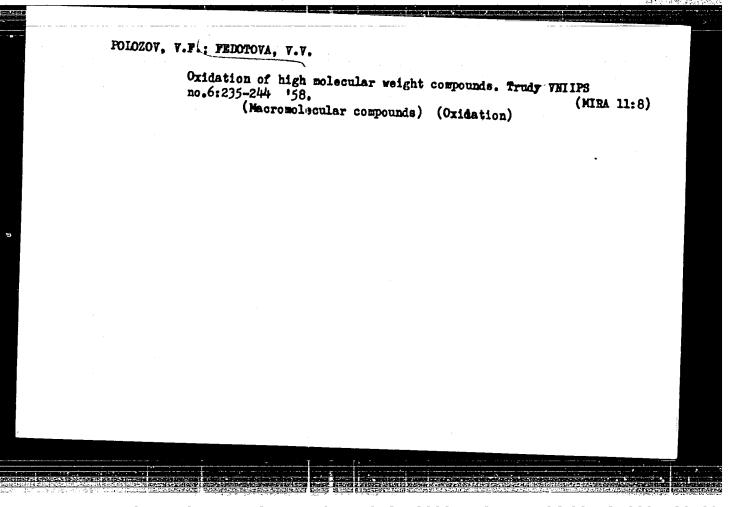
EWT(m) UR/0241/65/010/010/0057/00 ACC NR: AP6014671 SOURCE CODE: AUTHOR: Moroz, B. B.; Bezin, G. I.; Grozdov, S. P.; Lebedev, B. I.; Vasil vevskava, V. G.--Vasilievskava, V. V.; Ponomar kov. V. I.--Ponomarkov, V. I.; Fedorovskiy, L. L.-Fedorovsky, L. L.; Fedorovsky, P. V. P. V. P. V. P. V. I. ORG: none TITLE: Experimental Po sup 210 - induced chronic radiation sickness SOURCE: Meditsinskaya radiologiya, v. 10, no. 10, 1965, 57-61 TOPIC TAGS: polonium, radiation sickness, dog, alpha radiation, radiology ABSTRACT: The article describes the features of the clinical course and variation of certain functions in dogs with chronic radiation sickness caused by a single subcutaneous injection of Po²¹⁰ (0.00) microcuries per kg body weight). A prolonged initial period of relative clinical well-being was observed, with a developed picture of radiation sickness setting in only after some 3 months and with the dogs dying off individually after a period of from 128 to 310 days. The distribution of Po210 throughout the tissues and organs, which resulted in a constant local alpha-irradiation of the latter, evidently played a major role in the genesis of these disturbances, with gradual increment in the tissue dose, which after 6-9 months reached 1,100-1,400 rads. During the period of distinct radiation sickness the dogs displayed lethargy, lack of appetite, periodic diarrhoa, and thirst, along with spontaneous bleeding of the oral mucosa and spontaneous hemorrhages of the rectum and Card 1/2 UDC: 617-001.28-008.939.65

L 24235-66 O ACC NR: AP6014671 urinary tract. Shortly before death, the state of the dogs sharply deteriorated; they moved with difficulty, refused food, and vomitted bile and blood. Rectal temporature rose; the pulse was quick, arrhythmic, and arterial pressure foll. With these symptoms, the dogs died. It was accompanied by deep trophic disturbances due to a combination of mechanisms, each of which by itself may cause trophic changes: disturbances in neuroendocrine regulations with insufficiency of the adrenal coxtex; metabolic disorders, hemodynamic disorders, and chronic hypoxia, as well as the constant direct local effect of the alpha-emitter on the tissues. Anatomo-pathological dissection revealed that state of general dystrophy which is so characteristic of polonium poisoning and is not encountered when other radioactive isotopes pervade the organism. Orig. art. has: 4 tables. [JPRS] . ORIG REF: SUB CODE: 06 / SUBM DATE: 25Aug6% Card 2/2dda

Use of xylitol in sizing. Tekst.prom. 25 no.11:41-42 N '65.

(MIRA 18:12)

1. Nachal'nik tkatskogo proizvodstva fabriki "Bol'shaya Ivanovskaya manufaktura" (for Srednev). 2. Nachal'nik tkatskoy labom'--ii fabriki "Bol'shaya Ivanovskaya manufaktura (for Fedotova). 3. Prigo'ovit-'nyy otdel fabriki "Bol'shaya Ivanovskaya manufaktura" (for Nogteva).



5.3630

2209, 1173, 1266

Soborovskiy, L. Z., Gololobov, Yu. G., and Fedotova, V. V.

TITLE:

Reaction of Trivalent Phosphorus Compounds With Halogenated Acid Chlorides. I. Reaction of Trialkyl Phosphites With Trichloro-acetyl Chloride

PERIODICAL: Zhurnal obshchey khimii, 1960. Vol. 30, No. 8, pp.2586-2590

TEXT: When reacting triethyl phosphite with trichloro-acetyl chloride (Ref. 3), a product had been separated from the reaction mass, in addition to $(RO)_2$ P — 0 — C — P(OR)₂ (I) , which had been mistaken for the

to $(RO)_2$ $\stackrel{P}{\parallel}$ - 0 - $\stackrel{C}{\parallel}$ - $\stackrel{P}{\parallel}$ $(OR)_2$ (I) , which had been mistaken for the CCl_2 O

ketoester. The authors investigated more thoroughly the conversions taking place during the reaction of triethly phosphites with trichloro-acetyl chloride, since, owing to the presence of a trichloro-methyl radical on the carbonyl group, at least a partial formation of trichloro-vinyl esters

Card 1/3

X

85715

Reaction of Trivalent Phosphorus Compounds With Halogenated Acid Chlorides. I. Reaction of Trialkyl Phosphites With Trichloroacetyl Chloride

S/079/60/030/008/012/012/XX B001/B066

hitherto unknown was to be expected.

$$(RO)_3P + CCl_3C \xrightarrow{0} \xrightarrow{(RO)_2} POCCl \xrightarrow{POCCl} CCl_2 + RCl (2)$$

In the reaction of trialkyl phosphites with a considerable excess of trichloro-acetyl chloride under mild conditions in addition to compound (I) (yield, 15-25%), compounds were obtained which were identified to be trichloro-vinyl-dialkyl phosphates. Molecular weight and analytical data indicated that there was only one phosphorus atom in the mclecule. The investigation of the resulting products revealed that they add two chlorine atoms to give pentachloro derivatives; by acid hydrolysis they are completely converted to phosphoric, and not to phosphorous acid; the infrared spectrum shows an absorption band characteristic of the C = C double bond. In order to compare the properties of the resultant tri-Card 2/3

71100

Reaction of Trivalent Phosphorus Compounds With Halogenated Acid Chlorides. I. Reaction of Trialkyl Phosphites With Trichloro-acetyl Chloride

S/079/60/030/008/012/012/XX B001/B066

chloro-vinyl-dialkyl phosphates with those of the isomeric esters of trichloro-acetyl phosphinic acid, the latter were synthesized by reacting trichloro-acetyl chloride with dialkyl phosphites. The constants of these compounds are little different from those of the corresponding trichloro-vinyl-dialkyl phosphates. Unlike the latter, the esters of trichloro-acetyl phosphinic acid give phosphoric acid on acid hydrolysis; the infrared spectrum shows a C=0 group. The reaction of the esters of trichloro-acetyl phosphinic acid with trialkyl phosphites gives fif-dichloro- α -dialkyl-phosphono-vinyl-dialkyl phosphates. Their structure was confirmed by spectrum analysis of a sample. Mention is made of M. I. Kobachnik and P. A. Rossiyskaya. There are 3 figures, 3 tables and

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SUBMITTED:

July 15, 1959

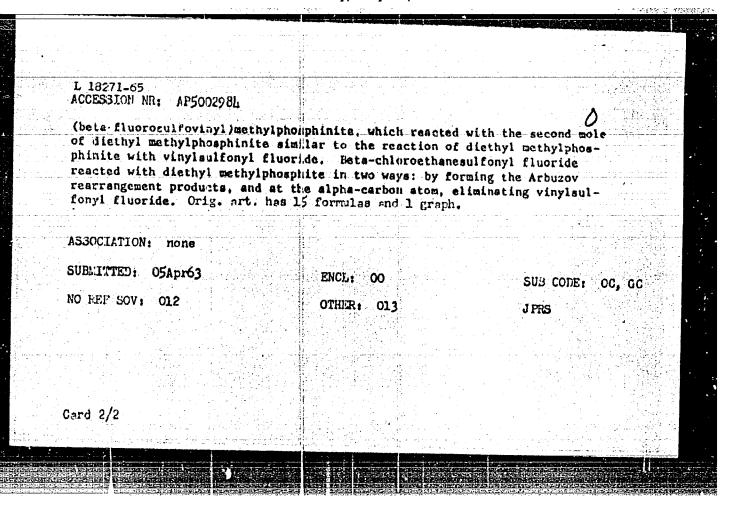
Card 3/3

YURGANOV, N. N.; FEDULOVA, V. V.

Possibility of producing high-quality cement from alkaline raw material. Trudy Giprotsement no. 26:196-199 '63.

(MIRA 17:5)

L 18271-65 EWT(m)/EPF(c)/EWP(j) -Pc-4/Pr-4 ACCESSION NR: APSO02964 8/0079/64/034/009/2697/2502 AUTHOR: Gladahteyn, B. M.; Pabking, E. 1.; Fedotova, V. V.; TITLE: Investigation in the series of organic sulfur compounds. VIII. Behavior of alkane- and alkanesulfonyl fluorides, as well as their halo derivatives, towards esters of trivalent phosphorus SOURCE: Zhurnal obshchey khimbi, v. 34, no. 9, 1964, 2897-2902 TOPIC TAGS: organic sulfur compound, fluoride, ester, organic phosphorus compound Abstract: The behavior of alkane- and alkenesulfonyl fluorides, as well as their halo derivatives, toward highly reactive esters of methylphosphinous acid was studied. The reactions of methane-, ethane-, vinyl-, beta-chloroethane-, and beta-chlorovinylsulfonyl fluorides with the diethyl ester of methylphosphinous acid were investigated. Methane- and ethanesulfonyl fluorides did not react with diethyl methylphosphinite under the conditions used. Vinyl-sulfonyl fluoride added diethyl methylphosphinite in the 1,4-position. Beta-chlorovinylaulfonyl fluoride reacted with diethyl methylphosphinite at the beta-carbon atom according to the Arbuzov rearrangement at equipolar ratios of the substances. Beta-chlorovinylaulfonyl fluoride reacted in steps with 2 moles of diethyl methylphosphinite, forming ethyl-Card 1/2



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810

Gladshteyn, B.M.; Habkina, E.I.; Fedotova, V.V.; Soborovskiy, L.Z.

Organic compounds of silfur. Part 8: Behavior of alkane- and alkenylsulfofluorides and of their halo derivatives in relation to trivalent phosphorus acid esters. Zhur. ob. khim. 34 no.9: 2897-2902 S '64.

(MIRA 17:11)

SARATIKOV, A.S.; FEDOTOVA, V.Ye.

Saussurea extract as an antilambliasis drug. Apt.delo 12 no.3: 26-28 My-Je "62. (MIRA 16:1)

1. Tomskiy meditsinskiy institut. (GIARDIASIS) (SAWWORT)

FEDOTOVA, Yekaterina Aleksandrovna; RYAZANOVA, V., redaktor; RAKOV, S.I.,

[How we improve the quality of cloth] Kak my uluchshaem kachestvo tkanei. [Moskva] Izd-vo VTeSPS Profisdat, 1954. 60 p. (MIRA 8:5)

1. Predsedatel fabkowa Moskowskoy fabriki "Osvobozhdennyy trud." (Textile industry)

FEDOTOVA, Ye.A.; SORKIN, E.Ye.

Pulmonary arteriovenous aneurysms in Rendu-Osler disease. Terap. arkh. 35 no.1:100-104 Ja:63. (MIRA 16:9)

1. Iz fakulitetskoy terapevticheskoy kliniki (zav. - prof. Sh. I. Ratner) i kafedry patologicheskoy anatomii (zav. dotsent A.I.Zelenskiy) Khabarovskogo meditsinskogo instituta. (TELANGIECTASIS)

EWT(m)/EPF(n)-2/EPR/EWP(q)/EWP(b) P8-4/Pu-4 ASD(m)-3/AFWL/ AS(mp)-2/ESD(gs)/ESD(t)/RAEM(t) JD/JG/AT/WH ACCESSION NR: AP4044938 \$/0181/64/006/009/2673/2682 AUTHOR: Iglitsyan, H. I; Hirzaliayev, H.; Tuchkevich, V. H.; Padotova, Ye. P.; Shmartsev. Yo. V. TITLE: Galvanomagnetic phenomena in n-type silicon carbide temperatures SOURCE: Fizika tverdogo tela, 1. 6, 110. 9, 1964, 2673-2682 TOPIC TAGS: silicon carbide, n type silicon carbide, galvanomagnetic property, electrical resistivity, Hall coefficient, magnetoresistance ABSTRACT: Electrical resistivity, Hall coefficient, and, for the first time, magnetoresistance have been measured at .1.5- 290 K for n-type hexagonal o-SiC with a free carrier concentration of 1018 cm-3. transparent SiC single crystals grown by the Lely method were used. It was shown that at low temperatures phenomena occur in SiC which are characteristic of impurity conductivity. The negative magnetoresistance showed an anomalous considerable angular dependence. Orig. art. has: 2 tables, 9 figures, and 3 formulas. Card 1/2

ON: Fiziko-t (Physicotech sledovatel's	ekhnichesiiy nical Institu kiy i projekt	see un gook)	<u>. "Gosudarstyen</u>	0 v k v	
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SALDADZE, K.M.; PEREMYSLOVA, Ye.S.; FEDOTOVA, Ye.N.; GCRYUNOVA, L.D.

Methods for purification of industrial ion exchangers. Plast.massy no.3:51-54, '62. (MIRA 15:4)

(Ion exchange)

FEDOTOVA, Ye.D.

Freezing depth of soil in Tatarstan as affected by meteorological conditions. Uch.xap.Kaz.un. 116 no.5:236-239 156. (MIRA 10:4)

1. Kafedra meteorologii i klimatologii. (Tatar A.S.S.R.--Frozen ground)

FEDOTOVA, Ye.D.

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Meteorological conditions in winter with deep and slight soil freezing in the middle Volga Valley. Uch. zap. Kas. un. 117 no.9: 337-340 '57. (MIRA 13:1)

l.Kazanskiy gosudaratvennyy universitet im. V.I. Ul'yanova-Lenina. Kafedra meteorologii i klimatologii. (Volga Valley-Winter)

Synoptic conditions in winter with deep and slight soil freezing in the middle Volga Valley, Uch, zap, Maz. un. 117 no.9:341-344
157. (MIRA 13:1)

1. Kazanskiy gosudarstvennyy universitet im, V.I. Ul'yanova-Lenina.

Kafedra klimatologii. (Volga Valley--Winter)

FEDOTOVA, Ye.D.

Seasonal freezing of soils in Tatarstan and some regions of the middle Volga Valley. Trudy Kazan. fil. AN SSSR. Ser. energ. 1 vod. khoz. no.4:133-140 59. (MIRA 13:8)

1. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina. (Tatar A.S.S.R,--Frozen ground) (Volge Valley--Frozen ground)

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' AUTHOR:

Okunev, A.I., Usachev, N.M., Lutokhin, D.I., Kurts, V.V., redotova, Ye.I. and Vostryakov, A.A.

· TITLE: Results of Industrial Tests on the Smelting of Roasted Collective Copper-Zinc Concentrates. (Rezul taty promyshlennykh ispytaniy plavki obozhzhennykh kollektivnykh medno-tsinkovykh kontsentratov)

PERIODICAL: Tsvetnye Metally, 1957, no.2, pp. 22 - 31 (USSR)

ABSTRACT: The use of flotation for concentrating many Ural copperzinc ores has led to the production of copper concentrates containing as much as 10-12% with copper contents of 8-10%. The aim of the present work was to test the smelting of roasts of such concentrates in a full-scale reverbatory furnace to give a zinc slag. The experimental furnace used was at the Sredneural'skiy Works and had a hearth area of about 8 m2, chrome-magnesite walls and hearth and silica roof and was fired with coal dust. The following main results were obtained in 2.5 - 3 months' work with concentrates containing 7-9% Cu and 6 - 15% Zn to give slags with 14-15% Zn. The results of laboratory investigations on zinc distribution between slag and matte in relation to their compositions were confirmed. 1/3 When mattes contained 40 - 50% Cu, the zinc content in the slag was about 1.6 - 1.8 times greater than in the matte.

Results of Industrial Tests on the Smelting of Roasted Collective Copper-zinc Concentrates.

optimal compositions of matte (45% Cu) and slag as well as the degree of de-sulphidisation Deep roasting is one of the main requirements, even when roasting and smelting are carried out in one unit. With deep roasts 80% of the zinc goes from the solid charge into the slag, 8.9% into the matte and 8-12% into the gas. With a 45-50% Cu matte the copper content of dumped slags was 0.7%; extraction of copper into the matte depends on the copper content of the concentrate and can be 90-95% with return of dust to the smelter, and up to 96-97% with treatment of the zinc slag. Extraction of noble metals was about the same as with raw or lightly-caloried charge. Average dust production is 4.5% of the charge weight and there can be up to 20-24% zinc in it (depending on the zinc content of the charge). Optimal sulphur content of the roast is 9-10% (2.0 - 2.5% sulphate sulphur); de-sulphurisation during smelting is 48-56%. Good separation of smelting products was always obtained, but observations on the state of the hearth suggest desirable design changes. Besides tabulation of materials analysis and metals balance graphs of zinc distribution vs matte copper content, of copper content in matte and slag vs time and of product temperatures vs time are given.

2/3

SOV/137-58-7-16169

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 321 (USSR)

AUTHORS: Aglitskiy, V. A., Yudytskiy, A. P., Fedotova, Ye. I.

TITLE: On the Method of Noble-metals Assay of Blister Copper (O metodike oprobovaniya chernovoy medi na soderzhaniye

blagorodnykh metallov)

PERIODICAL: Tr. i materialy. Ural'skiy n. -i. i proyektn. in-t medn. prom-sti, 1957, Nr 2, pp 355-360

ABSTRACT: The method of assaying (MA) blister Cu by means of sampling the liquid metal with a special mold-ladle without pouring the metal into a test mold. Several MA of crude CU for noble metal contents are given: Pattern drilling, taking of a liquid test sample from the converter or the laddle of the casting machine, and granulation of liquid metal. The comparative character of the results obtained with different MA is given. It is shown that in taking the test by means of drilling the solid metal, difficulties are encountered owing to the dirt present on the surface of the ingot, the uneven distribution of noble metals in the different sections of the ingot, and the different degrees of brittle-Card 1/2 ness of the separate structural components of the ingot, resulting

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On the Method of Noble-metals Assay of Blister Copper

in a different composition of the fine and the coarse fractions of the chips. The latter complicates the preparation of the test sample of chips for the analysis. It is determined that in the sampling of liquid crude Cu a great influence on the validity of the taking of the sample is exerted by the phenomena of liquation. The presence of liquation phenomena during the solidification of blister Cu has a telling effect on the noble-metal content in relation to the spot from which the sample was taken during the casting of Cu, whereas in the granulation of Cu its effect depends on whether the granulated metal is drawn directly from the stream of the metal tested or is granulated from the

1. Copper--Analysis 2. Copper (Liquid) 1-Sampling 3. Copper --Test methods

A. M.

Card 2/2

SOV/81-59-10-37447

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 575 (USSR)

AUTHORS: Fedotova, Ye.I., Khvilivitskiy, R.Ya., Ovchinnikova, A.G.

TITLE: An Investigation of Benzylaminodiazobenzene as Initiator of Polymerization

PERIODICAL: Uch. zap. Gor'kovsk. un-ta, 1958, Nr 32, pp 179-183

Crystalline benzylaminodiazobenzene (I) at $95 - 200^{\circ}\text{C}$ and in a solution ABSTRACT: of ethylcellosolve at 50 - 115° C decomposes with evolution of N₂ (90 -- 91.5 mol. % per one mole of decomposed I). At 80°C I initiates the

polymerization of methylmethacrylate in the mass (concentration of I 0.01 - 0.33% of the monomer weight).

R. Milyutinskaya

Card 1/1

S/072/60/000/011/003/005 B021/B058

AUTHORS: Berkman, A. S., Mel'nikova, I. G., Fedotova, Ye. I.

TITLE: Determination of the True Values of Open Porosity

PERIODICAL: Steklo i keramika, 1960, No. 11, pp. 27 - 29

TEXT: In this study, the authors used new methods of determining the pore volume: saturation of the sample with water after previous heating and the pressing of mercury into the pores of the sample, from which the air was removed. The samples were also saturated with liquids of various surface tension, at low temperature, boiling temperature, and under pressure with prior air removal. Samples of bricks prepared by the plastic and semidry process were used for the experiments, as well as mercury pore gages with low pressure (pores of from 800 to 15 μ diameter) and high pressure (up to 0.02 μ). The values of the open porosity of some samples are listed in Tables 1 and 2. The scheme of the system serving for the saturation of porous materials by steam-heating is shown in a figure, the system devised by T. F. Trebin being mentioned. Special experiments were conducted in order to investigate the dependence of the Card 1/2

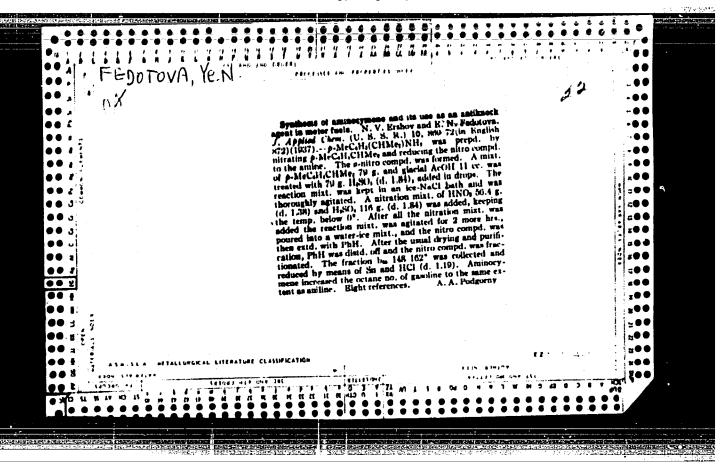
Determination of the True Values of Open Porosity

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porosity values on the sample dimensions, the results of which can be seen in Table 3. In conclusion, it is stated that the value of open porosity, determined by known methods, is considerably lower than the true value. The method of pressing mercury into the pores of the sample at a minimum pressure of 2,000 atm produces maximum porosity values. There are 1 figure, 3 tables, and 3 Soviet references.

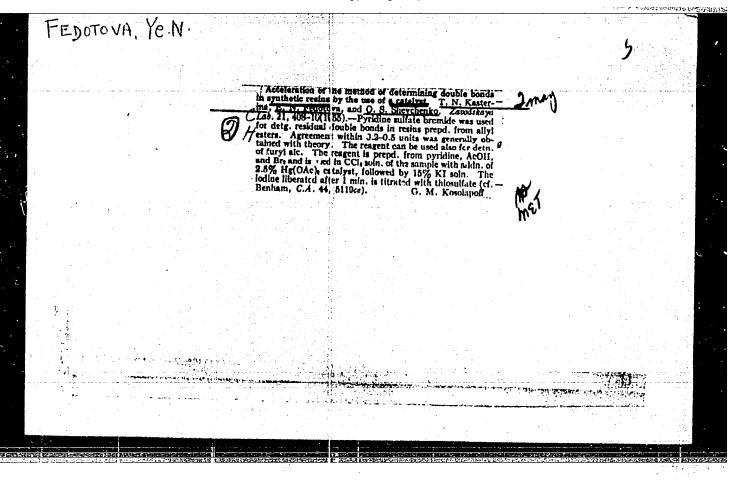
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AUTHORS:

Saldadze, K. M., Peremyslova, Ye. S., Fedotova, Ye. N.,

Coryunova, L. D.

TITLE:

Methods of purifying commercial ionites

PERIODICAL:

Plasticheskiye massy, no 3, 1962, 51-54

TEXT: The authors developed several methods of removing Fe and lowmolecular organic substances from KY-2 (KU-2) cationite, and AB-17 (AV-17) (containing 16% divinylbenzene) and AH-18 (AN-18) anionites. Mixing the purifying liquid and ionite in a separating funnel proved to be less economical than filtering the purifying liquid upwards through the ionite (10 ml/min). The best method for KU-2 was: swelling in a saturated NaCl L solution (0.5 1 per 100 g KU-2), washing with 11 H20, treatment with 2% NaCH (3.6 1, 6.0 hrs), washing (1.8 1 H₂O, 3.0 hrs), treatment with 5% HCl (5.4 1, 9.0 hrs), washing (1.2 1 H₂O, 2.0 hrs). For 100 g AV-17: swelling in 0.5 l of saturated NaCl solution, washing with 1.0 l H₂O, treatment with 5% HCl (13.8 l, 23.0 hrs), washing (4.2 l H20, 7.0 hrs),

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